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Jet Correlations after an event-selection of two back-to-back, high-pt particles CRAIG OGILVIE, Iowa State University, PHENIX COLLABORATION — High-momentum partons lose energy as they travel through the dense QGP that is formed at RHIC. The amount of energy-loss depends on both the density of the medium and the path-length that is traveled by the parton. How to best disentangle these two effects is an open question: work proceeds on multiple fronts; studying energy-loss versus reaction plane, centrality, and for different size colliding systems. Part of the difficulty is the strong energy-loss means that partons, which survive to produce high-pt hadrons, come from hard-collisions that occur predominantly near the surface of the dense matter. One possible method to alter this surface-bias is to select events that have two back-to-back high-pt hadrons. On average these partons will have traveled through similar lengths of dense matter and lost similar amounts of energy. This shifts the surface bias more towards the center of this collision. In this talk, I will present data on jet correlations on behalf of PHENIX using such an event selection. For example, I will report on the angular distribution of particles that are associated with one of the high-pt particles when there is another high-pt particle back-to-back in the same event. Data from A+A collisions using this event selection will be compared with data from p+p collisions.

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